

L Number	Hits	Search Text	DB	Time stamp
1	1076	celiac adj disease	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/02 16:58
2	2277	transglutaminase	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/02 17:16
3	28	(celiac adj disease) and transglutaminase	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/02 18:05
4	112	transglutaminase same (antigen or analyte)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/02 17:16
5	0	transglutaminase same (antigen or analyte) same capture	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/02 17:16
6	10	transglutaminase same (antigen or analyte) same (capture or bind)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/02 17:18
7	185	assay same antibod\$ same multivalent	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/02 18:02
8	2	(assay same antibod\$ same multivalent) and transglutaminase	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/02 17:55
10	1	transglutaminase and (assay same antibod\$ same bivalent)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/02 18:00
11	28	transglutaminase and (celiac adj disease)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/02 18:00
12	1	transglutaminase and (assay same antibod\$ same bivalent)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/02 18:00
9	115	assay same antibod\$ same bivalent	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/02 18:01
13	76	assay same antibod\$ same bivalent	USPAT; EPO	2004/02/02 18:01
14	12	(assay same antibod\$ same multivalent) same sandwich	USPAT; EPO	2004/02/02 18:08
15	5	(celiac adj disease) and transglutaminase	USPAT; EPO	2004/02/02 18:05
16	6259	(assay same antibod\$ same multivalent) same (solid adj phase) or (test adj strip)	USPAT; EPO	2004/02/02 18:08

17	4276	((assay same antibod\$) same ((solid adj phase) or (test adj strip))	USPAT; EPO	2004/02/02 18:09
18	23	((assay same antibod\$) same ((solid adj phase) or (test adj strip))) and transglutaminase	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/02 18:09
19	23	((assay same antibod\$) same ((solid adj phase) or (test adj strip))) and transglutaminase	USPAT; EPO	2004/02/02 18:09



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(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2002/0006633 A1****Sorell Gomez et al.**(43) **Pub. Date:****Jan. 17, 2002**(54) **ASSAY FOR ANTI TRANSGLUTAMINASE
ANTIBODIES DETECTION USEFUL IN
CELICAC DISEASE DIAGNOSIS**(52) **U.S. Cl. 435/7.92**(76) **Inventors: Luis Tomas Sorell Gomez, C. Habana
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Hoffmann & Baron, LLP
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Syosset, NY 11791 (US)**(57) **ABSTRACT**(21) **Appl. No.: 09/866,232**(22) **Filed: May 25, 2001**(30) **Foreign Application Priority Data****Jun. 7, 2000 (CU) 2000-0132****Publication Classification**(51) **Int. Cl.⁷ G01N 33/53; G01N 33/537;
G01N 33/543**

A non-instrumental assay for the diagnosis of celiac disease based on the general immunochromatographic assay principles. The assay is rapid and simple and allows the reliable detection of anti transglutaminase antibodies, of both IgA and IgG isotype, in samples of human serum, plasma or blood, using as tracer the antigen transglutaminase conjugated to a colored substance, like colloidal gold or colored latex particles. The conjugated antigen is deposited onto an inert fibrous support, from where it can be released by a liquid sample. The antibodies in the sample react with the conjugated antigen developing an immunocomplex that migrates through a carrier membrane, like nitrocellulose or nylon with a pore size that allows a laminar flow of the reagents, until it reacts with the same antigen transglutaminase immobilized onto a reactive zone of the membrane. As a consequence of this reaction the immunocomplex will be trapped in the reaction site and a colored signal will be seen. Therefore a visually detectable signal in the reactive zone of the membrane indicates a positive result for the detection of anti transglutaminase antibodies in the sample.

Figure 1

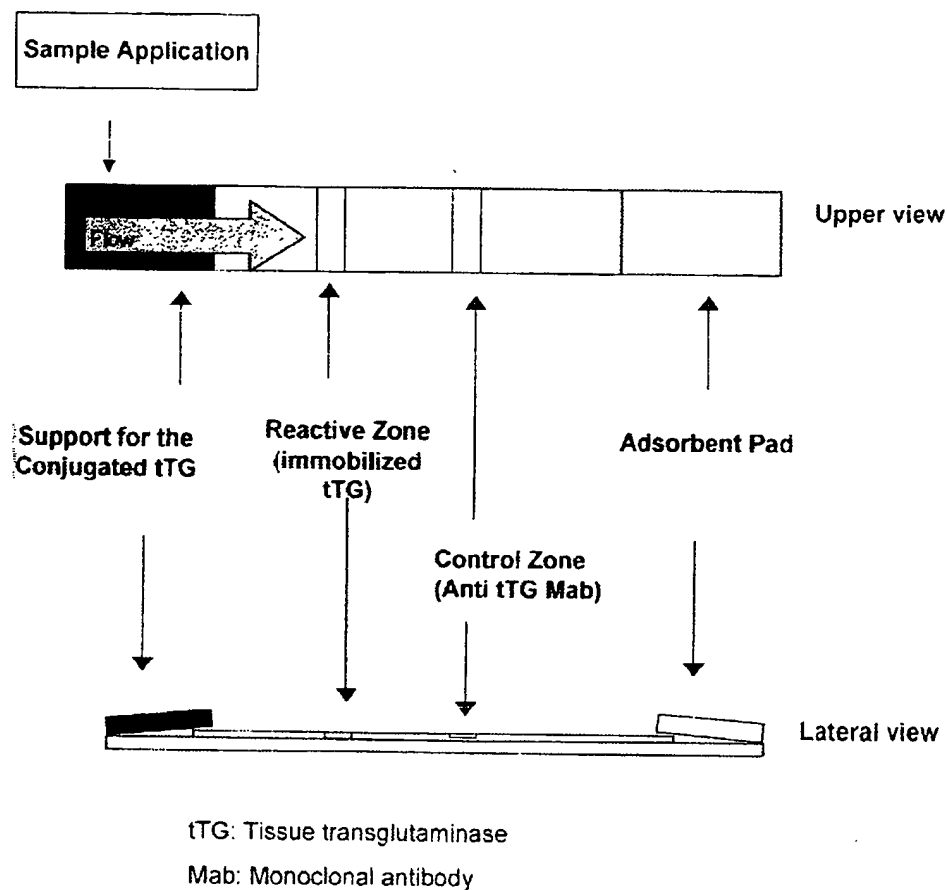


Figure 2

